

HOSES & LANCES

Jetstream provides a full arrangement of hoses and flex lances for ultra high pressure waterblasting. The hoses and lances are designed to be durable and reliable for any 20,000 psi application. A large selection of 25', 35' and 50' hoses and lances are kept in inventory, while a wide variety of lengths can be ordered.

All hoses and flex lances are constructed of a plastic core reinforced with high tensile steel wire and enclosed in a durable, flexible thermoplastic jacket. The smooth plastic core minimizes pressure loss and offers maximum resistance to damage caused by aging, moisture absorption and changing environmental factors. As an added safety benefit, all supply hoses with the abrasion cover spiral will be colored blue. Beginning in 2015, all flex lances supplied will be blue from end to end.

A key element of the thermoplastic supply hose is the heavy-duty abrasion cover. This cover prevents excess damage caused by vibration and movement of the hose on rough or uneven surfaces when connecting from the pump to an intermediary high pressure tool, such as a foot gun.

The flex lances are uncovered lances used for the cleaning of small diameter tubes found in heat exchangers, condensers and boilers. The use of smaller flex lances allows for easy passage through bends due to great flexibility and minimal bend radius.

HOSES & LANCES

HOW TO ORDER JETSTREAM HOSES & FLEX LANCES 28347-AAABBCCX

- | | |
|---|-------------------------|
| <p>① Specify Series Number
 Insert dash after Series Number.</p> | <p>28347</p> |
| <p>② Specify desired Length in Feet (000 – 999)
 Example: 050 for a 50 ft. long hose.</p> | <p>AAA</p> |
| <p>③ Specify End Fitting Codes (BB & CC)
 For a hose or lance requiring two different end fittings, list the codes in numerical order when creating the part number.</p> | <p>BB
CC</p> |
| <p>④ Specify Cover Options Code (X)
 Leave blank if no cover is desired.
 Cover Option Codes
 1 Abrasion Cover Guard
 2 Burst Shield Guard</p> | <p>X</p> |



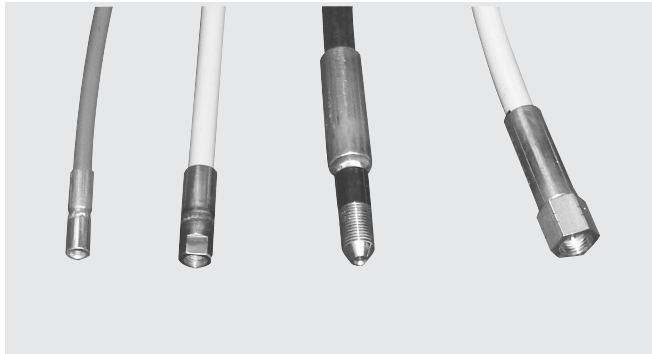
THERMOPLASTIC HOSES

These premium hoses provide the most durable and reliable means of connecting system components.

- Constructed of plastic core reinforced by four or six spiral layers of high tensile steel wire enclosed in a tough, flexible polyamide jacket.
- Smooth plastic core minimizes pressure loss and offers the maximum resistance to damage caused by aging, moisture absorption, and changing environmental factors.
- Stainless steel end fittings with industry standard connections.
- For special lengths, end fittings, or cover options, see custom order instructions on page D-4.
- See pages I-8–I-9 for pressure drop graphs.

PART NO.	END FITTING CONNECTIONS*	LENGTH		INSIDE DIAMETER		MAX. OPERATING PRESSURE		MINIMUM BEND RADIUS	
		ft	m	in	mm	psi	bar	in	mm
29120-02544441	1-5/16" Type M Female	25	7.6	.74	18.8	20,300	1,400	13.8	350
29120-05044441	1-5/16" Type M Female	50	15.2	.74	18.8	20,300	1,400	13.8	350
29120-02530301	1" MP Tube Nipple	25	7.6	.74	18.8	20,300	1,400	13.8	350
29120-05030301	1" MP Tube Nipple	50	15.2	.74	18.8	20,300	1,400	13.8	350
28347-02542421	1" Type M Female	25	7.6	.50	12.8	20,300	1,400	8.0	200
28347-05042421	1" Type M Female	50	15.2	.50	12.8	20,300	1,400	8.0	200
28347-02529291	3/4" MP Tube Nipple	25	7.6	.50	12.8	20,300	1,400	8.0	200
28347-05029291	3/4" MP Tube Nipple	50	15.2	.50	12.8	20,300	1,400	8.0	200
28347-02528281	9/16" MP Tube Nipple	25	7.6	.50	12.8	20,300	1,400	8.0	200
28347-05028281	9/16" MP Tube Nipple	50	15.2	.50	12.8	20,300	1,400	8.0	200
70941-05042421	1" Type M Female	50	15.2	.50	12.8	20,400	1,406	7.8	198
53816-02540401	3/4" Type M Female	25	7.6	.32	8.0	21,750	1,500	8.0	200
53816-05040401	3/4" Type M Female	50	15.2	.32	8.0	21,750	1,500	8.0	200
53816-02528281	9/16" MP Tube Nipple	25	7.6	.32	8.0	21,750	1,500	8.0	200
53816-05028281	9/16" MP Tube Nipple	50	15.2	.32	8.0	21,750	1,500	8.0	200
51954-02539391	9/16" Type M Female	25	7.6	.25	6.3	21,750	1,500	7.0	180
51954-05039391	9/16" Type M Female	50	15.2	.25	6.3	21,750	1,500	7.0	180
28690-0504040	3/4" Type M Female	50	15.2	.39	9.9	21,750	1,500	7.8	198

*See details on all connection types beginning on page I-2. Medium Pressure (MP) Tube Nipple connections do not include gland nuts and collars.



FLEX LANCES

Flex lances are uncovered hoses used for the cleaning of small diameter tubes such as those found in heat exchangers, condensers, and boilers.

- Flex lances have a small minimum bend radius which allows them to pass through bends in the tubes.
- Constructed of plastic core reinforced by four spiral layers of high tensile steel wire enclosed in a tough, flexible polyamide jacket.
- Smooth plastic core minimizes pressure loss and offers the maximum resistance to damage caused by aging, moisture absorption, and changing environmental factors.
- Stainless steel end fittings.
- See pages I-8–I-9 for pressure drop graphs.
- Custom lengths and end fitting combinations are available upon request.

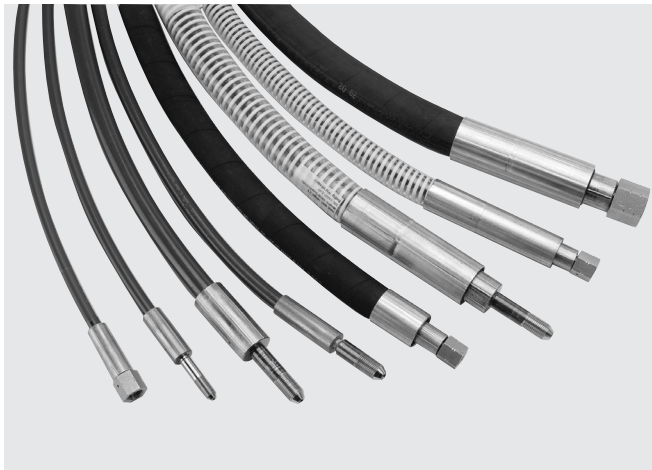
HOSES & LANCES

PART NO.* XXX = LENGTH (ft)	END FITTING CONNECTIONS**		INSIDE DIAMETER		OUTSIDE DIAMETER***		MAX. OPERATING PRESSURE		MIN. BEND RADIUS	
	INLET SIDE	NOZZLE SIDE	in	mm	in	mm	psi	bar	in	mm
28690-XXX4052	3/4" Type M Female	9/16" MP Nozzle Nipple LH	.39	9.9	.72	18.4	21,750	1,500	7.8	198
53816-XXX4072	3/4" Type M Female	9/16" MP Nozzle Nipple LH	.32	8.0	.67	17.0	21,750	1,500	8.0	200
53816-XXX4075	3/4" Type M Female	9/16" MP Nozzle Nipple RH	.32	8.0	.67	17.0	21,750	1,500	8.0	200
53816-XXX4067	3/4" Type M Female	9/16" JS Lance Female	.32	8.0	.74	18.8	21,750	1,500	8.0	200
53816-XXX6767	3/4" JS Lance Female	9/16" JS Lance Female	.32	8.0	.74	18.8	21,750	1,500	8.0	200
51954-XXX3971	9/16" Type M Female	3/8" MP Nozzle Nipple LH	.25	6.3	.57	14.4	21,750	1,500	7.0	180
51954-XXX3974	9/16" Type M Female	3/8" MP Nozzle Nipple RH	.25	6.3	.57	14.4	21,750	1,500	7.0	180
51954-XXX3966	9/16" Type M Female	3/8" JS Lance Female	.25	6.3	.62	15.7	21,750	1,500	7.0	180
51954-XXX6666	3/8" JS Lance Female	3/8" JS Lance Female	.25	6.3	.62	15.7	21,750	1,500	7.0	180
51953-XXX3971	9/16" Type M Female	3/8" MP Nozzle Nipple LH	.20	5.0	.49	12.5	26,100	1,800	6.0	150
51953-XXX3974	9/16" Type M Female	3/8" MP Nozzle Nipple RH	.20	5.0	.49	12.5	26,100	1,800	6.0	150
51953-XXX3966	9/16" Type M Female	3/8" JS Lance Female	.20	5.0	.57	14.5	26,100	1,800	6.0	150
51953-XXX6666	3/8" JS Lance Female	3/8" JS Lance Female	.20	5.0	.57	14.5	26,100	1,800	6.0	150
51952-XXX3970	9/16" Type M Female	1/4" MP Nozzle Nipple LH	.16	4.0	.50	12.7	31,320	2,160	5.0	130
51952-XXX3979	9/16" Type M Female	1/4" MP Nozzle Nipple RH	.16	4.0	.50	12.7	31,320	2,160	5.0	130
51952-XXX3965	9/16" Type M Female	1/4" JS Lance Female	.16	4.0	.50	12.7	31,320	2,160	5.0	130
51952-XXX6565	1/4" JS Lance Female	1/4" JS Lance Female	.16	4.0	.50	12.7	31,320	2,160	5.0	130
28699-XXX3970	9/16" Type M Female	1/4" MP Nozzle Nipple LH	.13	3.4	.31	8.0	29,000	2,000	4.3	110
28699-XXX3973	9/16" Type M Female	1/4" MP Nozzle Nipple RH	.13	3.4	.31	8.0	29,000	2,000	4.3	110

*Specify flex lance length in feet. For example, specify "050" for a fifty foot long flex lance.

**See details on end fittings for these assemblies on page D-5 and specifications for all connection types beginning on page I-2.

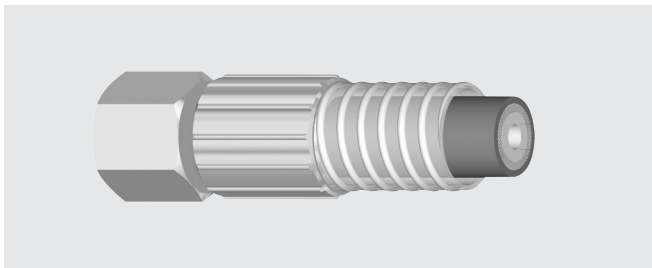
***Outside diameter of end fitting sleeve on nozzle end of flex lance.



THERMOPLASTIC HOSES & FLEX LANCES
CUSTOM ORDER

All Jetstream 20,000 psi thermoplastic hoses and flex lances are available in custom lengths or with special end fitting combinations or covers. Common lengths and configurations are available on the two preceding pages.

- Constructed of plastic core reinforced by four or six spiral layers of high tensile steel wire enclosed in a tough, flexible polyamide jacket.
- Smooth plastic core minimizes pressure loss and offers the maximum resistance to damage caused by aging, moisture absorption, and changing environmental factors.
- Stainless steel end fittings.
- See pages I-7-I-9 for pressure drop graphs.
- Use charts and instructions below to build a custom hose or flex lance.



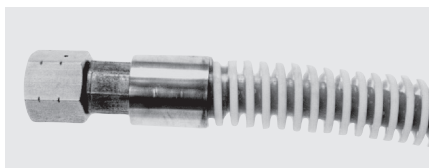
PART NO.	INSIDE DIAMETER (A)		OUTSIDE DIAMETER (B)		BURST PRESSURE		MAX. OPERATING PRESSURE		MINIMUM BEND RADIUS		WEIGHT	
	in	mm	in	mm	psi	bar	psi	bar	in	mm	lbs/ft	kg/m
29120	.74	18.8	1.24	31.4	50,760	3,500	20,300	1,400	13.8	350	1.29	1.92
28347	.50	12.7	.87	22.0	50,760	3,500	20,300	1,400	8.0	200	.59	.88
28690	.39	9.9	.72	18.4	55,100	3,799	21,750	1,500	7.8	200	.46	.69
53816	.32	8.0	.57	14.6	55,100	3,800	21,750	1,500	8.0	200	.26	.39
51954	.25	6.3	.50	12.7	55,100	3,800	21,750	1,500	7.0	180	.20	.30
51953	.20	5.0	.44	11.2	65,250	4,500	26,100	1,800	6.0	150	.18	.26
51952	.16	4.0	.41	10.4	78,300	5,400	31,320	2,160	5.0	130	.16	.23
28699	.13	3.4	.31	8.0	72,500	5,000	29,000	2,000	4.3	110	.09	.13
70941	.50	12.8	.88	22.3	N/A	N/A	20,400	1,406	7.8	200	.63	.28

*Outside diameter shown is for hose material. For maximum OD, see sleeve diameters listed in charts on the following page.

HOSE COVER OPTIONS

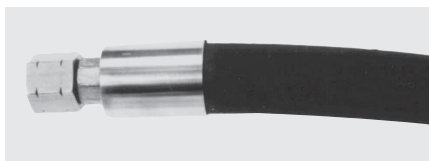
Abrasion Cover Guard (Code 1)

Constructed of a clear PVC or heavy-duty vinyl and reinforced with a rigid helix coil. The Abrasion Cover Guard helps protect the hose from excessive wear due to scuffing or rough surfaces, and also provides additional protection from external objects.



Burst Shield Guard (Code 2)

Constructed of steel wire reinforced heavy-duty synthetic rubber. The Burst Shield Guard helps protect the user and/or surrounding areas from hose failures.



HOSES AND LANCES

20,000 PSI

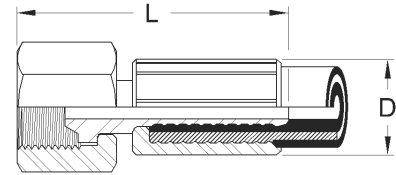


END FITTINGS

Use the information contained in the charts below to select the fitting codes for the connection types desired. See specifications for all connection types beginning on page I-2.

TYPE M FEMALE

HOSE SERIES NO.	CONNECTION	CODE	LENGTH (L)		SLEEVE OD (D)	
			in	mm	in	mm
29120	1 5/16" Type M (M-21)	44	4.29	109	1.69	42.9
28347	1" Type M (M-16)	42	3.70	94	1.16	29.5
70941	1" Type M (M-16)	42	3.70	94	1.16	29.5
53816	3/4" Type M (M-12)	40	3.37	86	.80	20.3
28690	3/4" Type M (M-12)	40	3.37	86	.80	20.3
51954	9/16" Type M (M-9)	39	2.80	71	.65	16.4
51953	9/16" Type M (M-9)	39	2.76	70	.61	15.5
51952	9/16" Type M (M-9)	39	2.77	70	.58	14.7

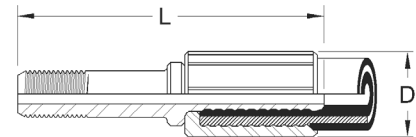


HOSES & LANCES

MEDIUM PRESSURE TUBE NIPPLES

Male left-hand threaded end fittings designed for connection to other medium pressure fittings and ports using the appropriate gland nuts and collars.

HOSE SERIES NO.	CONNECTION	CODE	LENGTH (L)		SLEEVE OD (D)	
			in	mm	in	mm
29120	1" MP Tube LH	30	6.00	152	1.69	42.9
28347	3/4" MP Tube LH	29	5.36	136	1.16	29.5
	9/16" MP Tube LH	28	4.67	119	1.16	29.5
53816	9/16" MP Tube LH	28	4.10	104	.80	20.3
51954	3/8" MP Tube LH	27	3.55	90	.65	16.4
51953	9/16" MP Tube LH	28	4.06	103	.61	15.5
	3/8" MP Tube LH	27	3.54	90	.61	15.5
	1/4" MP Tube LH	26	3.27	83	.61	15.5
51952	3/8" MP Tube LH	27	3.62	92	.58	14.7
	1/4" MP Tube LH	26	3.31	84	.58	14.7
	1/4" MP Tube RH	79	1.82	46	.49	12.5
28690	9/16" MP Tube LH	72	4.06	103	.61	15.5
28699	9/16" MP Tube LH	70	4.06	103	.61	15.5



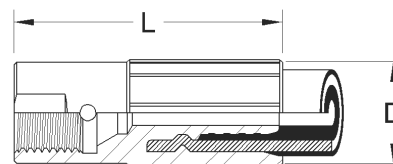
HOSES AND LANCES

20,000 PSI



JETSTREAM LANCE FEMALE

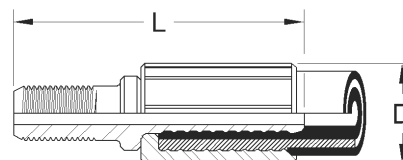
HOSE SERIES NO.	CONNECTION	CODE	LENGTH (L)		SLEEVE OD (D)	
			in	mm	in	mm
53816	9/16" JS Lance Female	67	2.06	52	.74	18.8
51954	3/8" JS Lance Female	66	1.72	44	.62	15.7
51953	3/8" JS Lance Female	66	1.70	43	.57	14.5
51952	1/4" JS Lance Female	65	1.50	38	.50	12.7



MEDIUM PRESSURE NOZZLE NIPPLES

Connect directly to nozzles with female left or right hand medium pressure tube connections.

HOSE SERIES NO.	SIZE	CODE		LENGTH (L)		SLEEVE OD (D)	
		LH	RH	in	mm	in	mm
53816	9/16" MP Tube	72	75	2.36	60	.67	17.0
51954	3/8" MP Tube	71	74	2.10	53	.57	14.4
51953	3/8" MP Tube	71	74	2.05	52	.49	12.5
	1/4" MP Tube	70	73	1.82	46	.49	12.5
51952	1/4" MP Tube	70	73	1.82	46	.45	11.4



HOSES & LANCES

HOSES AND LANCES

20,000 PSI

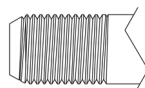


RIGID LANCES

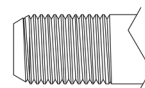
- For use in manual or automatic tube cleaning applications.
- Machined from high tensile strength, cold drawn stainless steel.
- Three connection types available:
 - Left Hand Medium Pressure Tubing (MP Tube LH)
Can be used with glands and collars or with tube nozzles.
Available in 1/4" to 3/4" sizes.
 - Right Hand Medium Pressure Tubing (MP Tube RH).
Available in 1/4" to 3/4" sizes.
 - Jetstream Lance Connections (JS Lance).
Available in 1/4", 3/8", & 9/16" sizes.
- See page pressure drop graphs on the next page.

To order:

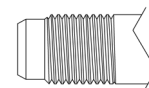
use five digit part number followed by a dash (-) and length in feet (up to 25 ft).



MP TUBE LH CONNECTION



MP TUBE RH CONNECTION



JS LANCE CONNECTION

HOSES & LANCES

PART NO.* XX = LENGTH (FT)	CONNECTION TYPES*		OUTSIDE DIAMETER		INSIDE DIAMETER		MAX. OPERATING PRESSURE		LENGTH	
	CONNECTION 1 (C1)	CONNECTION 2 (C2)	in	mm	in	mm	psi	bar	ft	m
54731-XX	3/4" MP Tube LH	3/4" MP Tube LH	.740	18.8	.438	11.1	20,000	1,379	25	7.62
54732-XX	3/4" MP Tube LH	3/4" MP Tube RH	.740	18.8	.438	11.1	20,000	1,379	25	7.62
54733-XX	3/4" MP Tube RH	3/4" MP Tube RH	.740	18.8	.438	11.1	20,000	1,379	25	7.62
54223-XX	9/16" MP Tube LH	9/16" MP Tube LH	.553	14.0	.312	7.9	20,000	1,379	35	10.66
23-54223-30	9/16" MP Tube LH	9/16" MP Tube LH	.553	14.0	.312	7.9	20,000	1,379	30	9.14
54388-XX	9/16" MP Tube LH	9/16" MP Tube RH	.553	14.0	.312	7.9	20,000	1,379	35	10.66
54801-XX	9/16" MP Tube LH	9/16" JS Lance	.553	14.0	.312	7.9	20,000	1,379	35	10.66
54802-XX	9/16" MP Tube RH	9/16" MP Tube RH	.553	14.0	.312	7.9	20,000	1,379	35	10.66
54803-XX	9/16" MP Tube RH	9/16" JS Lance	.553	14.0	.312	7.9	20,000	1,379	35	10.66
51936-XX	9/16" JS Lance	9/16" JS Lance	.553	14.0	.312	7.9	20,000	1,379	35	10.66
54222-XX	3/8" MP Tube LH	3/8" MP Tube LH	.368	9.3	.203	5.2	20,000	1,379	35	10.66
54387-XX	3/8" MP Tube LH	3/8" MP Tube RH	.368	9.3	.203	5.2	20,000	1,379	35	10.66
23-54387-30	3/8" MP Tube LH	3/8" MP Tube RH	.368	9.3	.203	5.2	20,000	1,379	30	9.14
54797-XX	3/8" MP Tube LH	3/8" JS Lance	.368	9.3	.203	5.2	20,000	1,379	35	10.66
54798-XX	3/8" MP Tube RH	3/8" MP Tube RH	.368	9.3	.203	5.2	20,000	1,379	35	10.66
54799-XX	3/8" MP Tube RH	3/8" JS Lance	.368	9.3	.203	5.2	20,000	1,379	35	10.66
51934-XX	3/8" JS Lance	3/8" JS Lance	.368	9.3	.203	5.2	20,000	1,379	35	10.66
54389-XX	1/4" MP Tube LH	1/4" MP Tube LH	.245	6.2	.109	2.8	20,000	1,379	35	10.66
54386-XX	1/4" MP Tube LH	1/4" MP Tube RH	.245	6.2	.109	2.8	20,000	1,379	35	10.66
54793-XX	1/4" MP Tube LH	1/4" JS Lance	.245	6.2	.109	2.8	20,000	1,379	35	10.66
54794-XX	1/4" MP Tube RH	1/4" MP Tube RH	.245	6.2	.109	2.8	20,000	1,379	35	10.66
54796-XX	1/4" MP Tube RH	1/4" JS Lance	.245	6.2	.109	2.8	20,000	1,379	35	10.66
51933-XX	1/4" JS Lance	1/4" JS Lance	.245	6.2	.109	2.8	20,000	1,379	35	10.66

*See details on all connection types beginning on page I-2.